

Section 441—Miscellaneous Concrete

441.1 General Description

General Provisions 101 through 150.

441.1.01 Definitions

General Provisions 101 through 150.

441.1.02 Related References

A. Standard Specifications

[Section 500—Concrete Structures](#)

[Section 511—Reinforcement Steel](#)

441.1.03 Submittals

General Provisions 101 through 150.

441.2 Materials

A. Concrete

Use concrete that conforms to the minimum requirements for Class “B”, as specified in [Section 500](#) of the Specifications, except that one-bag mixers may be used

B. Concrete Testing

The frequency of concrete test cylinder fabrication is 100 cumulative cubic yards (76 cubic meters) or 1 set per week per plant. Air and slump tests are required when cylinders are fabricated.

C. Concrete Components

The cement, fly ash, additives, coarse and fine aggregates, and water will normally be sampled and tested as a part of the materials used in concrete under other Pay Items. No additional testing will be necessary for materials under this item. Where they are not sampled and tested under other Pay Items, sampling shall be handled as outlined in the Sampling, Testing, and Inspection information for [Section 500](#) of the Specifications.

D. Steel Reinforcements

Steel reinforcements shall be handled according to [Section 511](#) of the Sampling, Testing, and Inspection information.

E. Dowel Bars and Tie Bars

Acceptance samples consisting of two bars shall be taken from each shipment and submitted to the [Office of Materials and Research](#).

F. Prestested Dowel Bars and Tie Bars

In the event that dowel bars and tie bars are pre-tested, no further sampling is required.

The [Office of Materials and Research](#) will distribute test reports based on preinspection and tests.

No report is necessary but documentation must be made in the Project Diary or as required by the [Construction Information](#). If no report is received within 10 calendar days from the receipt of the dowel bars and tie bars, the Engineer should immediately contact the [Office of Materials and Research](#).

441.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

441.3 Construction Requirements

General Provisions 101 through 150.

441.3.01 Personnel

General Provisions 101 through 150.

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441.3.02 Equipment

General Provisions 101 through 150.

441.3.03 Preparation

General Provisions 101 through 150.

441.3.04 Fabrication

General Provisions 101 through 150.

441.3.05 Construction

General Provisions 101 through 150.

441.3.06 Quality Acceptance

General Provisions 101 through 150.

441.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

441.4 Measurement

General Provisions 101 through 150.

441.4.01 Limits

General Provisions 101 through 150.

441.5 Payment

General Provisions 101 through 150.

441.5.01 Adjustments

General Provisions 101 through 150.